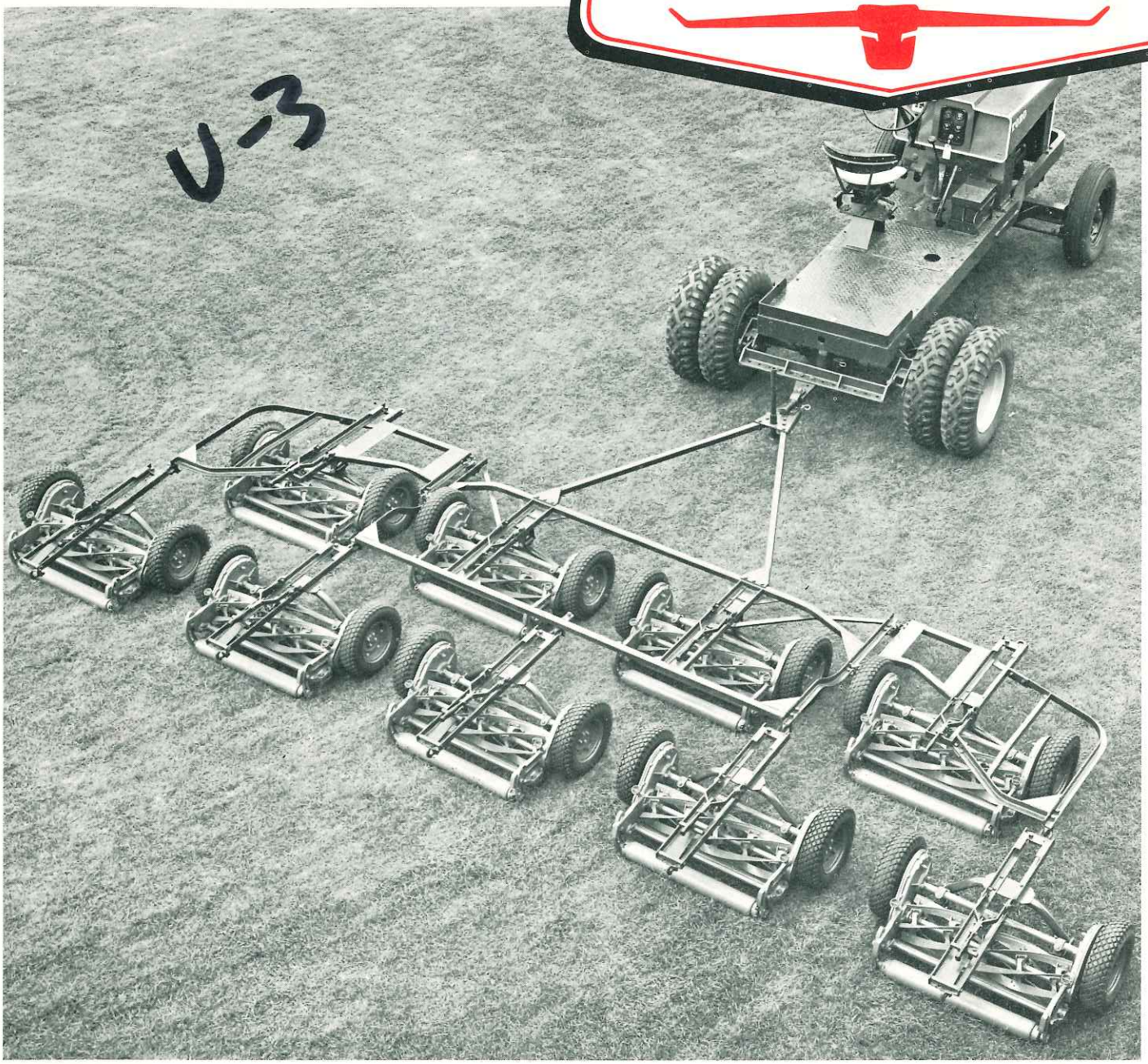
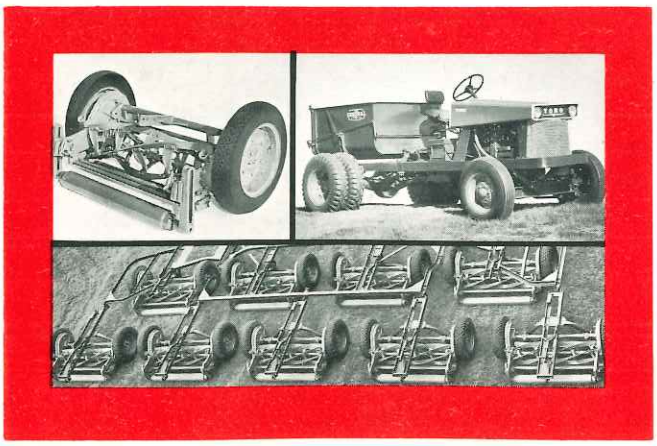
FOR COMPLETE TURF MAINTENANCE

TORO®

V-3





TURF TRACTORS

GANG MOWERS

TORO® FRAMES

Introduction...

Toro Frames and Gang Mowers can be combined in many different ways to meet your requirements to solve large area mowing problems efficiently, effectively, and economically. Mowing widths from 7 feet to 21 feet are available for fine grass or rough areas. All Toro frames and gang mowers are built to rugged specifications for all-day, every-day cutting.

When selecting Toro gang mowers and frames, the terrain and type of grass must be considered to assure you the proper combination. It is also important that your expansion plans be considered to give you future savings when you must increase your mowing capacity.

Toro frames may be pulled by any tractor with sufficient power, but for the ultimate in mowing performance, the Toro General Tractor should be used. This tractor is designed specifically for turf maintenance. By the use of optional accessories, you can have a unique machine that is tailored to your most exacting requirements.

TORO'S ANALYSIS SERVICE

HOW TO GET YOUR MOWING MAINTENANCE COSTS INTO LINE

TORO'S FREE ANALYSIS SERVICE ANSWERS ALL THESE QUESTIONS

- Are your manpower costs for mowing too high?
- Can you improve the mowing results you're getting?
- Does your equipment have too-high maintenance costs?
- Can you keep the grass cut under heavy growing conditions?
- What is the best solution to each of your mowing problems?
- What is the value of your present cutting machinery?
- Are you keeping abreast of available modern equipment?
- Can Toro's fleet plan save you money? How much?
- How economical will new equipment be? And financing?

Find out if your mowing problems can be better solved... and find out fast just how much it will save. Toro's FREE analysis service puts grass mowing specialists to work on your problems. And there's no obligation.

Toro puts it down in black and white. A Toro representative will make an analysis answering each of the above questions (plus many more).

After all the facts are down, the representative will submit a fleet proposal. Again, it's all down in black and white, showing how you can save . . . the why, where, what it all adds up to this year and as an investment for future years.

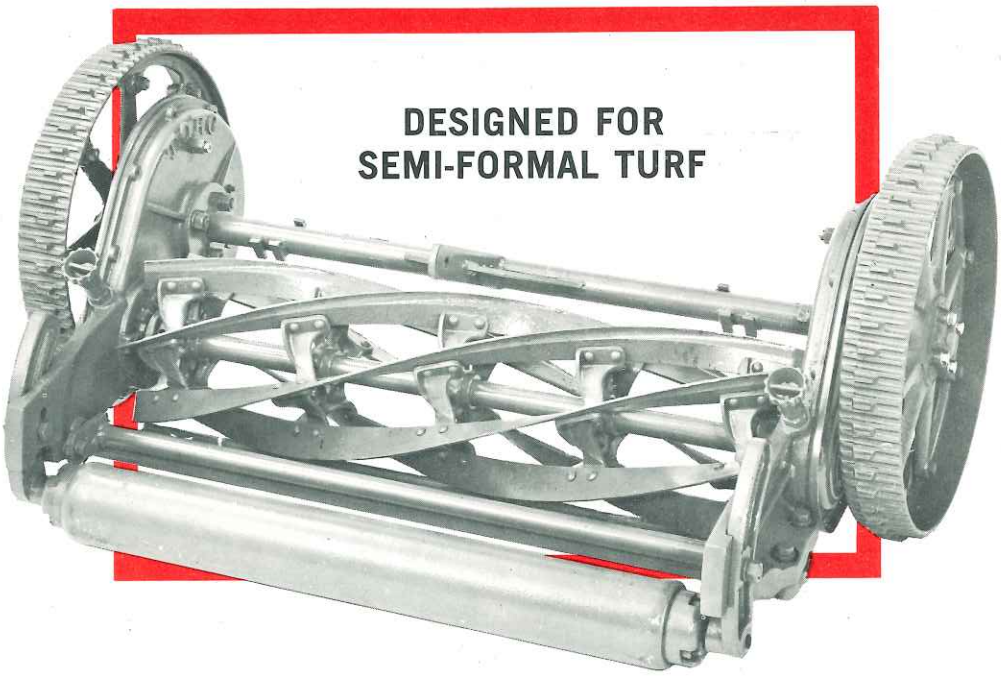
You will see possibilities for dollar and time savings. . . a study of manpower . . . how economical a Toro equipment plan can be. Also, the Toro planning specialist will show and explain various methods of financing such as cash, time payment or lease.

Toro ANALYSIS SERVICE is yours for the asking.

6 BLADE, 30 INCH SPARTAN GANG MOWER

For grasses where average heights of cut are maintained, the six blade Spartan gang mower is desirable. A smooth mowing job will result in a range of cutting heights from 1-inch to 2-inches. Frequency of clip is 1.1 inch with 16-inch wheels, and will give a well-groomed appearance on general purpose turf. When equipped with 14-inch wheels, the clip is .975 inch, and this will result in a slightly smoother appearance.

Recommended for Fairways – Park Boulevards – Picnic Grounds – Cemeteries–Athletic Fields–Business and Institutional Grounds – and College Campuses.



6-BLADE SPARTAN SPECIAL FEATURES

Clip: With small diameter 14-inch steel wheels, a .975″ clip is available. With 16-inch steel (or pneumatic) wheels, a 1.1″ clip is available.

Height of Cut: With 14-inch wheels, 5/16″ to 2 3/16″. With 16-inch wheels, 3/8″ to 2 5/8″.

Radial Designed Reel: A zero offset in the reel design prevents the reel blades from exceeding the 8-inch diameter when struck by a hard object. This prevents serious damage, and saves on repair expenses.

6-Blade Reels: All blades are correctly hardened to a 35-40 Rockwell test. This results in toughness without brittleness.

Reel Spiders: Five malleable iron spiders have rivet mounting of the blades. Blade replacement is easy.

Reel Shaft: A 1 1/8″ diameter shaft is mounted on adjustable tapered roller bearings. Proper bearing tolerances are easily maintained.

Double-Edge Bed Knife: This feature doubles the life of the bed knife before replacement knives are needed.

Bed Knife Adjustment: This adjustment uses rust-resistant stainless steel screws. The opposed adjustment on cylindrical pivots gives positive knife-to-reel stability.

Rear Rollers: The rollers have sealed ball bearings and neoprene thrust mounts for long life.

Main Drive Gear: The drive gear is a hardened steel forging. All gears run in a sealed case, with a fluid lubricant.

Throw-out Clutch: The gear case throw-out clutch allows free wheeling for transport.

Heavy-duty Chassis: Heavy ribbed cast iron side plates and tubular cross members form the mower chassis.

High Speed Mowing: An underslung drawbar exerts hold-down pressure on the rear roller. This permits smooth mowing at higher speeds.

6-BLADE DETAILED SPECIFICATIONS

CLIP: 14-inch wheels .975″. 16-inch wheels 1.1″.

CUTTING WIDTH: 29¾″.

HEIGHT OF CUT: 14-inch wheels, 5/16″ to 2-3/16″. 16-inch wheels, 3/8″ to 2⅝″.

RATIO OF WHEEL SPEED TO REEL SPEED: 1 to 7.5.

NUMBER OF BLADES PER REEL: 6.

REEL ASSEMBLY: Special heat-treated blades of high quality steel mounted to malleable cast iron spiders by rivets. Reel shaft is 1⅛ inches in diameter on adjustable tapered roller bearings.

REEL DIAMETER: 8 inches.

REEL DRIVE: Both sides of the reel have a gear train made up of machine-cut hardened steel gears and a clutch idler gear. All gears are sealed from dirt, and run in a fluid lubricant.

THROW-OUT CLUTCH: Disengages reel for free-wheeling and transporting.

WHEELS: 14 and 16-inch diameter steel wheels have replaceable cast iron rims and spokes. 16-inch diameter pneumatic wheels consist of tire, tube, and pressed steel rim.

BEARINGS: Both the reel and the wheels have adjustable tapered roller bearings. The rear roller bearing is a double-sealed ball bearing.

REAR ROLLER: The 3½-inch diameter steel roller has ball bearings in a neoprene thrust mount which are sealed from grit and moisture. Roller brackets adjust the height of cut, offering 32 individual settings.

BED KNIFE AND BAR: The double-edge chrome vanadium steel bed knife is screwed to a high strength cast iron bar with opposed screw adjustment on cylindrical pivots, using stainless steel bed knife and adjusting screws.

CHASSIS AND SIDE PLATE: Ribbed cast iron side plates have heavy tubular cross members. An arm provides means for attaching the frame lift levers for raising the rear rollers when transporting.

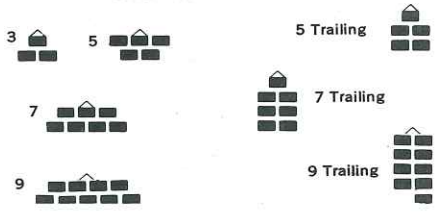
UNDERSLUNG DRAWBAR: Special positioning of the drawbar exerts a hold-down pressure on the rear roller when mowing. The more speed at which the unit is pulled, the greater the hold-down action on the rear roller. This permits smooth mowing at higher speeds.

DIMENSIONS: Width 40⅜ inches with steel wheels; 44 inches with pneumatic tires. Length 24¾ inches. Height 16½ inches. Weight 212 lbs.

OPTIONAL EQUIPMENT: 3 section rubber roller, 14-inch steel wheels, 16-inch pneumatic wheels.

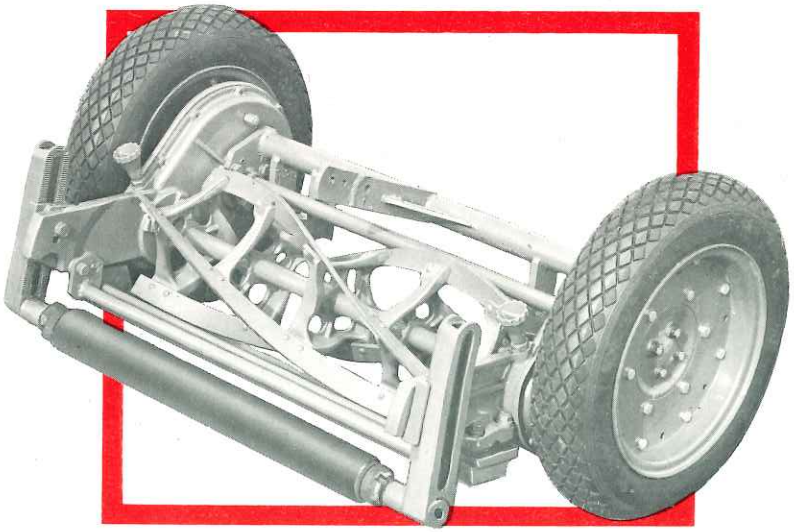
FRAME APPLICATIONS FOR 6-BLADE SPARTAN GANG MOWER

UNIVERSAL FRAME



3 UNIT INDUSTRIAL AND 3 POINT HITCH FRAME

FARMALL CUB

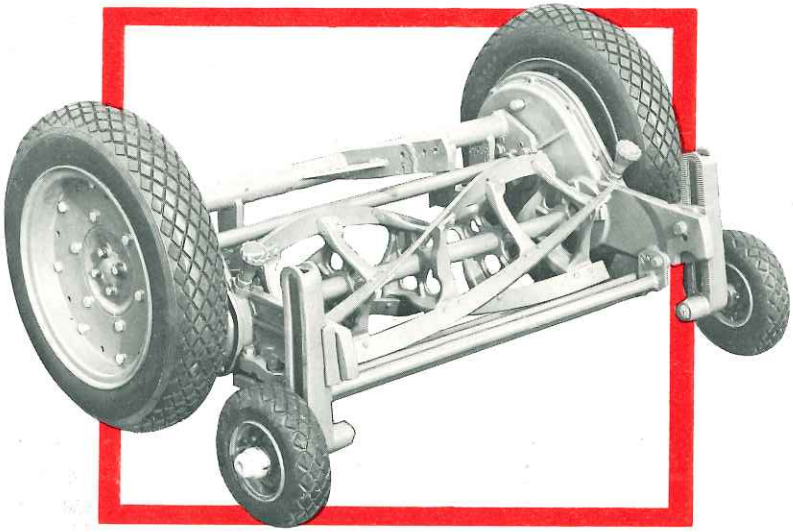


ROUGHMASTER 4 BLADE, 30 INCH GANG MOWER

WITH ROLLER

1¼"-3½"

HEIGHT OF CUT

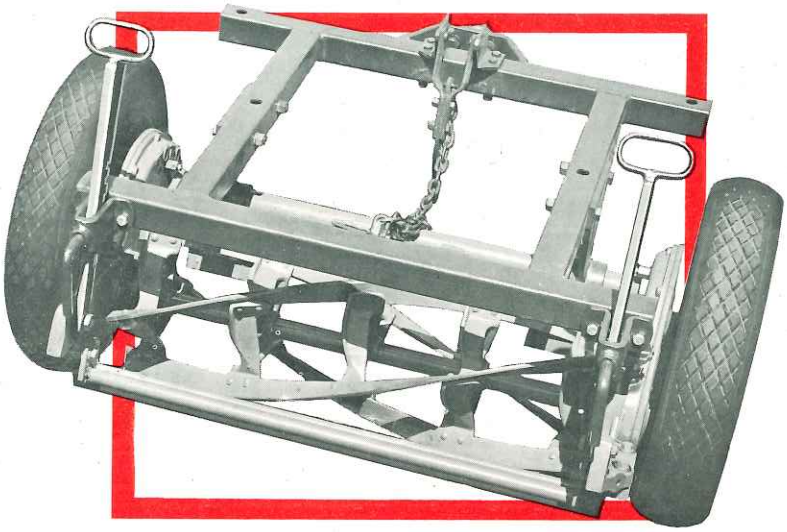


ROUGHMASTER 4 BLADE, 30 INCH GANG MOWER

WITH GAUGE WHEELS

1¾"-4½"

HEIGHT OF CUT



ROUGHMASTER 4 BLADE, 30 INCH GANG MOWER

2"-5"

HEIGHT OF CUT

The Roughmaster with rear roller is specifically recommended for maintaining golf course roughs and similar semi-formal turf areas. The roller allows the unit to closely follow ground contours and give a smooth even cut. Heavy duty construction makes the Roughmaster durable for all-day, everyday use.

The Roughmaster with rear gauge wheels is recommended for "control mowing" in limited-care turf areas. These are the areas that are difficult to maintain as they occasionally have rocks and other foreign objects. The Roughmaster is designed to meet these rugged requirements.

The Roughmaster without roller or gauge wheels is used with special height of cut brackets in the Aero Frame. It is designed for minimum maintenance cost in wide open turf areas such as airports. In these areas mowing speeds can be faster, and at 10 miles an hour with 11 Roughmaster units, the mowing capacity is 28 acres an hour.

SPECIAL FEATURES

Radial Designed Reel: A zero offset in the reel design prevents the reel blades from exceeding the 10-inch diameter when struck by a hard object. This eliminates serious damage, and saves on repair expense.

Four Reel Blades: All four blades are ¼" heavy steel. Blades are specially heat-treated to an RC 45-50 Rockwell hardness. The combination of thickness and hardness results in a very durable blade.

Reel Spiders: Five malleable iron spiders have rivet-mounted blades. Blade replacement is easy. Malleable iron spiders absorb shock of heavy blows when objects are struck.

Reel Shaft: A 1¼" diameter shaft is mounted on adjustable tapered roller bearings. Bearings have double-lip seals, and a stationary grass shield for protection.

Bed Knife: Bed knife is single-edged heavy-duty knife, and is made of chrome molybdenum alloy steel. It is fastened to the bed bar by means of stainless steel screws.

Bed Bar: The bed bar is of heavy duty triangle folded steel, and rigidly supports the bed knife.

Bed Knife Adjustment: This adjustment uses rust-resistant stainless steel screws. The opposed adjustment on cylindrical pivots gives positive knife-to-reel stability.

Clip: 2.1 inches using 20-inch diameter four ply diamond tread pneumatic wheels.

Main Drive Gear: The drive gear is a hardened steel forging and has a long-wearing life. All gears run in a sealed case with lubricant.

Throw-out Clutch: The gear case throw-out clutch allows free wheeling for transport.

Heavy-duty Chassis: Heavy ribbed cast iron side plates and solid steel cross members provide a tough durable mower chassis.

High Speed Mowing: An underslung drawbar exerts hold-down pressure on the rear roller, permitting smooth mowing at higher speeds.

4-BLADE DETAILED SPECIFICATIONS

CLIP: 2.1 inches.

CUTTING WIDTH: 30 inches.

RATIO OF WHEEL SPEED TO REEL SPEED: 1 to 7.5.

REEL: 10-inch diameter, using four ¼" x 1½" heat-treated blades riveted to five malleable cast iron spiders on 1¼-inch shaft mounted on Timken tapered adjustable roller bearings with double-lip seals and stationary grass shields.

REEL DRIVE: Both sides of the reel have a gear train made up of machine-cut hardened steel gears and a clutch idler gear. All gears are sealed from dirt, and run in a fluid lubricant.

THROW-OUT CLUTCH: Disengages reel for free-wheeling and transporting.

WHEELS: 20-Inch diameter Diamond tread four ply tire and tube size 4.00x12—and a pressed steel rim.

BEARINGS: Both the reel and the wheels have adjustable tapered roller bearings. The rear roller has a double-sealed ball bearing.

REAR ROLLER: The 3½-inch diameter steel roller has ball bearings in neoprene thrust mounts and is sealed from grit and moisture. Roller brackets adjust the height of cut offering a complete range of settings between 1¼ inches and 3½ inches.

REAR PNEUMATIC TIRES: 8-inch diameter four ply pneumatic tires mounted on steel rims with ball bearings, result in superior performance on rough ground. Height of cut range is 1¾ inches to 4½ inches.

BED KNIFE AND BAR: Single-edged chrome molybdenum alloy steel, fastened to a triangular folded steel bed bar with stainless steel screws, and precision ground after assembly.

SIDE PLATES: Heavy-duty cast iron side plates with pressed steel covers.

CROSS MEMBERS: Two solid steel shafts 1⅜ inches and ⅞ inch join the side plates to form the mower chassis.

UNDERSLUNG DRAWBARS: Special positioning of the drawbar exerts a hold-down pressure on the rear roller when mowing. The more speed at which the unit is pulled, the greater the hold-down on the rear roller. This permits smooth mowing at higher speeds.

REAR SUPPORT: Optional—Roller, Gauge Wheels.

WEIGHT: 266 lbs.

DIMENSIONS: Height 21 inches. Width 46 inches. Length 32 inches.

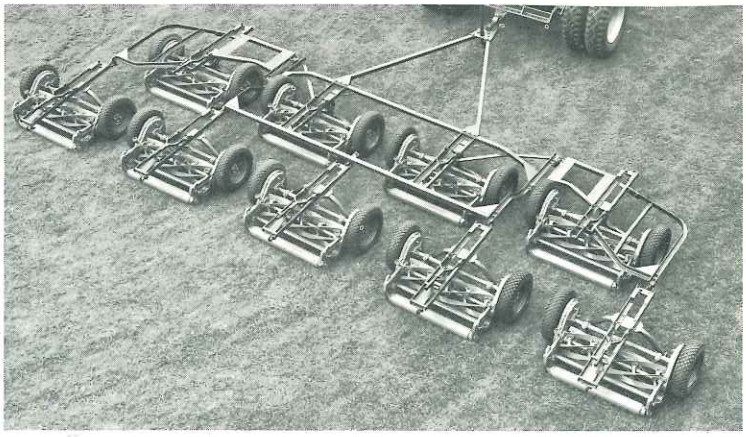
ROUGHMASTER FRAME AND AERO FRAME LAYOUT

		Mowing Swath	Acres Per Hour*
3		7′ 2″	6
5		11′ 10″	10
7		16′ 6″	14
9		21′ 2″	18
11		25′ 10″	22

*Based on 8 miles an hour mowing speed.

Universal Frame

Flexible, dependable and economical! – That's the Toro Universal Frame. Connects to any standard make of tractor by means of a pin drawbar, and is available in three, five, seven, or nine gang units. Three scientifically determined draw points result in a powerful hold-down pressure on the rear rollers. Permits faster mowing speeds without bouncing or skipping of units. The fully-flexible frame permits Spartan gang mowers to yield readily to undulations of the ground so a clean cutting job is done, regardless of contour. The Universal Frame can be equipped with Spartan gang mowers. Height of cut is 3/8" to 2 5/8".



NINE UNIT Universal mows approximately a 21.5 foot swath. Daily mowing capacity is approximately 130 acres at seven miles an hour.

FIVE UNIT Universal mows aproximately 11.5 foot swath. Daily mowing capacity is aproximately 70 acres at seven miles per hour.

SEVEN UNIT Universal mows approximately a 16 foot swath. Daily mowing capacity is approximately 105 acres at seven miles an hour.

General Comments:

The Universal Frame has a lift lever for each mower which allows the rear roller to be lifted into transport position. Throw-out clutches on the Spartan gang mower permit free wheeling in transport position. Ball socket joints and hook-and-eye couplings make it easy to put the unit into various trailing positions for transporting. Trailing hitches are standard equipment.

SPECIFICATIONS:

UNITS: 3, 5, 7 or 9

WIDTH OF CUT:

3 unit	7′
5 unit	11′ 6″
7 unit	16′
9 unit	21′ 6″

OVERALL WIDTH IN CUTTING POSITION:

3 unit	8′ 2″
5 unit	12′ 8″
7 unit	17′ 2″
9 unit	21′ 8″

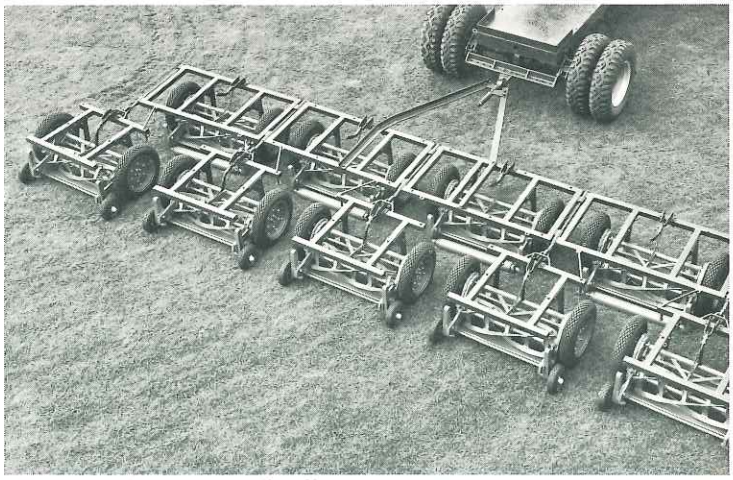
OVERALL WIDTH TRAILING POSITION:

3 unit	8′ 2″
5 unit	8′ 2″
7 unit	9′ 1½″
9 unit	Two configurations for trailing: 13′ 8″ or 9′ 5″

Roughmaster Frame

The Roughmaster Frame is constructed of heavy square tubular steel. The frame is so designed that expanding an existing gang of Roughmaster units to seven or nine gangs is relatively simple. The frame will stand up under the roughest of cutting conditions, and is flexible for following ground contours.

The Toro Roughmaster Gang Mower, with its 10-inch diameter 4-blade reel, is designed for use in this Frame. It is equipped with 20-inch diamond tread pneumatic wheels. A rear roller or rear pneumatic tired wheels are available for height-of-cut adjustment. The mower has a 2.1 inch clip.



9 UNIT ROUGHMASTER ON GOLF COURSE: At 7 miles an hour, a nine gang Roughmaster Frame and gang mowers can mow 134 acres in eight hours. This frame and mowers are the answer to the problem of keepng large industrial turf areas under control. It is the ideal combination for airports, parks, and golf courses. The frame and gang mower may be pulled by any type of tractor with sufficient power.

Specifications

UNITS:

3, 5, 7, 9 or 11

WIDTH OF CUT:

3 unit	7′ 2″
5 unit	11′ 10″
7 unit	16′ 6″
9 unit	21′ 2″
11 unit	25′ 10″

HEIGHT OF CUT:

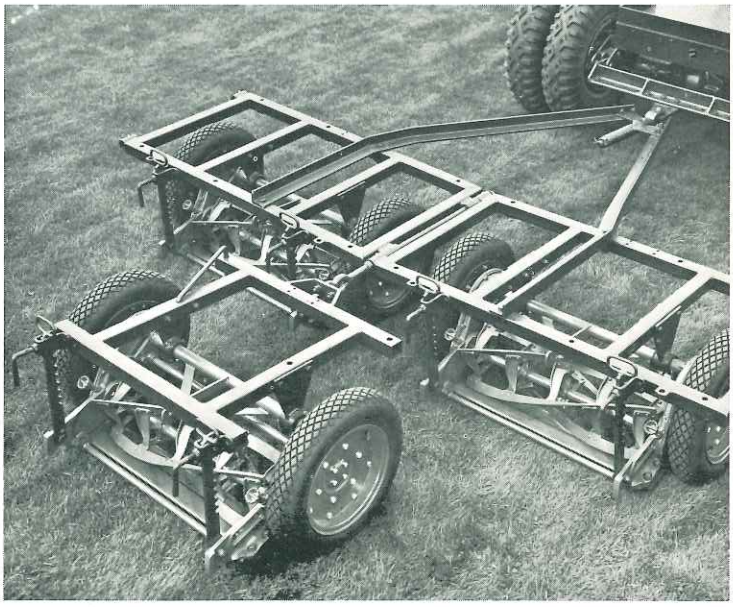
Rear Roller	1¼″	3½″
Rear Pneu. Wheels	1¾″	4½″

OVERALL WIDTH, CUTTING POSITION:

3 unit	9′ 6″
5 unit	13′
7 unit	18′ 9″
9 unit	22′ 3″
11 unit	27′ 0″

Aero Frame

The Aero Frame is constructed of heavy square tubular steel and is designed to stand up under the roughest of cutting conditions. The Roughmaster Gang Mower, with its 10-inch diameter 4-blade reel, is designed for this Frame. The 20-inch diamond tread pneumatic wheels give maximum traction for all mowing conditions. The rear of the Roughmasters are supported by special height-of-cut brackets and permit a wide range of cutting heights, 2″ to 5″, clip 2.1″.



Specifications

UNITS:

3, 5, 7, 9 or 11

WIDTH OF CUT:

3 unit	7′ 2″
5 unit	11′ 10″
7 unit	16′ 6″
9 unit	21′ 2″
11 unit	25′ 10″

HEIGHT OF CUT:

2″ . . . . . 5″

OVERALL WIDTH, CUTTING POSITION:

3 unit	9′ 6″
5 unit	13′
7 unit	18′ 9″
9 unit	22′ 3″
11 unit	27′ 0″

3 Unit Industrial Frame

This frame and gang mower combination is designed for industrial plants and estates where maintenance expansion is not contemplated. It is a non-convertible frame and therefore has a more economical purchase price. Spartan gang mowers can be used with this frame. Six blade clip is 1.1".

Specifications:

UNITS: 3.
WIDTH OF CUT: 7' 1¾".
HEIGHT OF CUT: ⅜" to 2⅜" with 32 individual settings.
OVERALL WIDTH: 8' ⅜" (mower with steel wheels).
FRAME: 1¼" standard pipe, welded construction.
GENERAL COMMENTS: It will require a minimum of 9 drawbar horsepower to pull this frame.

Three Point Hitch Frame

The Toro three point Hitch Frame will fit any S.A.E. Category I three point hitch tractor. It is easily hooked up to the three point hydraulic lift system. The frame can be used with three Spartan gang mowers, or Roughmasters with rollers or gauge wheels. It is constructed of angle iron and square tubular steel. The hydraulic system of the tractor lifts the Spartan mowers for easy transport over curbs and pavements — expedites transport, and prevents needless wear of mowers.

Specifications:

UNITS: 3.
WIDTH OF CUT: 6' 10".
OVERALL WIDTH IN CUTTING POSITION: 8' 2".
FRAME: Square tubular steel, welded construction.

Farmall Cub Tractor Frame

The Farmall Cub Tractor can be mounted with three Spartan gang mowers with pneumatic wheels and a frame to utilize the hydraulic lift system. The complete unit forms a high capacity mowing machine at low cost. The 82-inch cutting swath mows more than 15 acres per day at three miles per hour, with higher speeds possible. The unit's two mid-mounted gangs and rear gang can be raised or lowered simultaneously with the touch of the hydraulic control lever, to speed and ease operation. The operator can pick up and transport to any jobsite without the disadvantages of trailing heavy mowing equipment over curbs and other obstacles. The Toro Spartan Gang Mowers can be equipped with either steel wheels or pneumatic-tired wheels.

The Cub Tractor requires the "touch control" hydraulic system and fast hitch. This frame will not fit the Cub "Lo-Boy" model.

Specifications:

WIDTH OF CUT: 82".
HEIGHT OF CUT: ⅜" to 2⅜" with 32 individual settings.
OVERALL WIDTH IN CUTTING OR TRANSPORTING POSITION: 96".
OVERALL LENGTH OF TRACTOR AND FRAME:
In transport position — 129½".
In mowing positon — 132½".
CONSTRUCTION: 2" square tubular steel tubing, angle iron and steel bar stock. Arc-welded throughout.

General Tractor

POWER STEERING (optional) – With only finger-tip effort, you can drive all day without fatigue. Only 3-5 pounds of finger pressure required.

HOOD – Automotive style, opens from the front. Permits easy access to the engine for routine maintenance.

INSTRUMENT PANEL – Complete with accurate gauges: oil pressure, fuel level, engine temperature and ammeter.

BASIC HYDRAULIC SYSTEM (optional) – Use for any hydraulic application. This system will power a Toro Parkmaster hydraulic frame as well as other hydraulic equipment.

LOW RPM, HIGH TORQUE ENGINE – Gives best turf speed at maximum engine economy. In high gear, the Toro Tractor travels up to 40 miles an hour for transport speed.

HEAD LIGHTS AND TAIL LIGHTS (optional) – 12-volt sealed-beam lights for wide-angle pattern, lights entire area for both working and transporting.

FLEXIBILITY, MANEUVERABILITY – The new General has an exceptionally short turning radius, yet it has all of the advantages of a long wheelbase tractor for turf work.

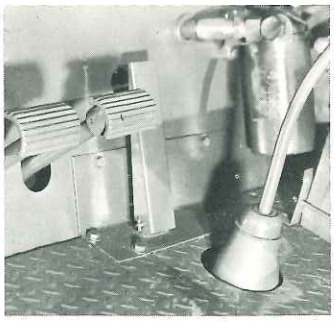
Features

This versatile tractor has many applications – and by the use of optional accessory packages, a unique machine can be obtained.

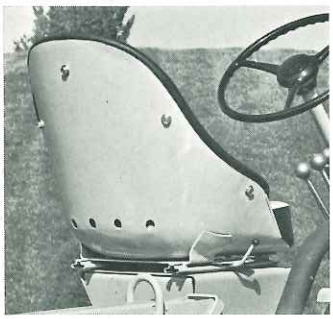
The Toro General is built specifically for turf use, and it meets all the requirements of modern turf maintenance equipment. New seat, controls and power steering have been designed to improve driver control and comfort.

The Toro General with dump box makes a fine all-round utility vehicle for golf courses, parks and municipalities. With the high transport speeds, great flexibility in selecting mower combinations, and the fine accessory equipment available, an owner can get maximum use from his tractor. Consider your maintenance problems and list the features you require in a tractor. Add them up and you'll find many of them are standard equipment with the Toro General or are available as optional accessories. Don't buy any tractor until you see the new Toro General! Lease and contract plans are available.

POWER STEERING – One of the most widely accepted innovations in driving today, power steering (available on the Toro General), actually raises driver efficiency. Finger-tip steering is now a fact – and maneuvering around trees, shrubs and parkways eight hours a day is no longer a laborious task. The power steering (optional) consists of the steering rams, all hoses, and a separate belt-driven pump. It is not necessary to have a complete hydraulic installation to accommodate the power steering. Only 3-5 pounds of finger pressure is needed for turning.

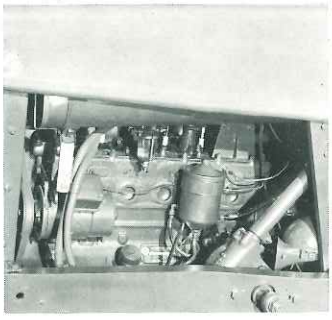


CONTROLS – Controls on the Toro General are modified for simple operation and instant control. An automotive-type foot accelerator permits steady control of engine speed. Easy-to-reach clutch and brake pedals are located at comfortable distances. A hand brake is located to the right of the driver, and features a positive over center lock-action. An optional hand throttle control with governor is available (similar to controls used on agricultural type equipment) where rough terrain makes foot controls impractical.



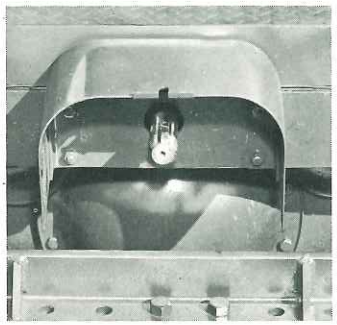
NEW SEAT – The new General is equipped with a comfortable bus type wrap around high bracket seat. It has five inch foam rubber padding and fingertip fore and aft seat adjustment for operator comfort. This permits operation of the General tractor for many hours without fatigue.

HEADLIGHTS – Wide-angle sealed-beam headlights, designed to fit into the Toro General hood, are available as optional equipment. Tail lights are also available as an optional package. The headlights permit over-the-road travel at night as well as night maintenance work. A switch control is furnished on the instrument panel to operate the lights. Turn signals are also available.



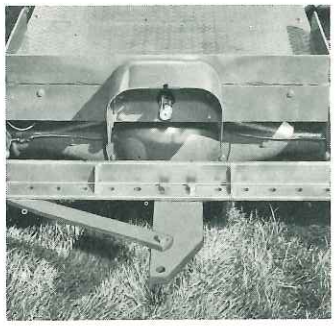
BIG CAPACITY ENGINE – 226 cu. in. displacement produces 73 horsepower at 2400 rpm. Full pressure oil filter, under-the-hood gas tank, full firewall for heat insulation and operator's protection. Special roller bearing steering assembly and roller bearing wheel spindles give 30% easier steering.

AUTOMOTIVE TYPE HOOD – The automotive type hood raises from the front and locks into position, eases the job of routine maintenance. Servicing of the air cleaner, changing the spark plugs, and checking the cooling system is as simple as driving into your own neighborhood filling station. The hood fits snugly when snapped into closed position.

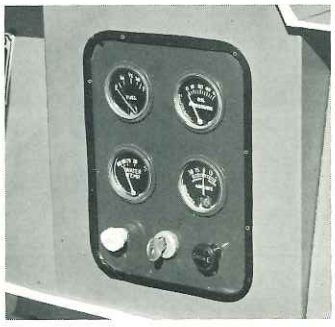


REAR POWER TAKE-OFF – Optional equipment for use with the 80-inch Whirlwind. It includes a foot-engaging and kick-out lever to allow the driver to keep both hands on the steering wheel while the mower is in operation. The power take-off can be used with other implements designed for rear take-off operation.

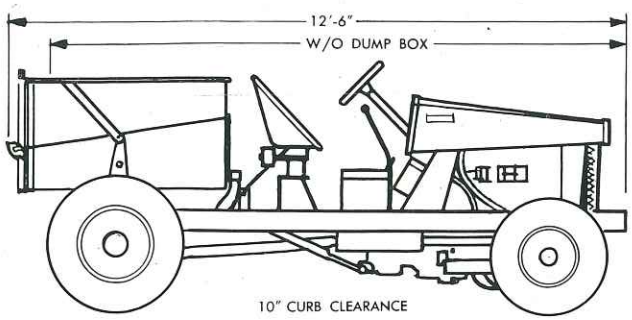
FRONT AXLE – The new Toro General is equipped with a front axle of heavy-duty "I" beam design. The load capacity assures the front axle of being strong enough to support a number of front-mounted implements. It is structurally built for continuous heavy-duty use.

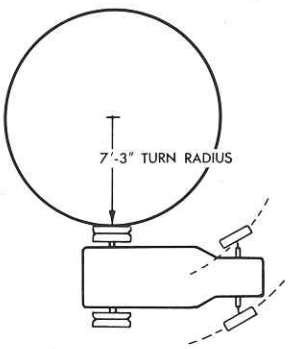


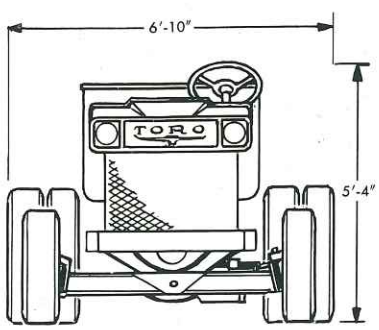
LATERALLY ADJUSTABLE DRAWBAR – A unique feature that permits a lateral adjustment of any Universal pull-type frame. This staggers the wheel-marks of any trailing unit either to the left or right of center–changing the patterns which develop over continuous months of mowing. Can be shifted over 16 inches to left or right of center.



INSTRUMENT PANEL – The Toro General instrument panel includes an ammeter, fuel gauge, water temperature gauge and an oil pressure gauge. This complete equipment assures the operator that his tractor is functioning properly and that his fuel supply is adequate.







Specifications for TORO TRACTOR

ENGINE: Continental—6 cylinder—226 cu. in. displacement. 6.7 to 1 compression ration. Crankshaft and connecting rods drop-forged steel, heat-treated. Battery is 12 volt. Oiling system full pressure 20-30 lbs. per sq. inch driven by a gear type pump. Oil capacity: 6 quarts in the crankcase plus ½ quart in the oil filter and one quart in air cleaner. The oil filter has a replaceable element. Air cleaner, oil bath type. A front pulley is mounted, with power take-off possibilities as well, and with an extra belt groove for power steering. Horsepower: 73 @ 2400 R.P.M.

STEERING GEAR: Cam and lever steering mechanism. 3¾ turns of the steering wheel from maximum left turn to maximum right turn. Oil capacity is 1¾ pints of SAE 140.

THROTTLE CONTROL: Foot pedal—fast idle position with choke control linkage. Provision for variable speed governor with hand operated throttle.

SEAT: Bus type wrap-around high backrest seat. Seat includes 5" foam rubber padding. Finger-tip fore and aft adjustment. Seat base includes tool box.

COOLING SYSTEM: Radiator has flat tube and plate fin core, and stamped brass top and bottom tanks. Pressure cap maintains 4 lbs. per square inch. A thermostat temperature control is used. Capacity 16 quarts.

FUEL CAPACITY: 13½ gallons—regular gasoline.

INSTRUMENT PANEL: Consists of ammeter, fuel level gauge, oil pressure gauge, engine temperature gauge, combination ignition-starter switch and manual choke. There is a provision for light switch when lights are installed.

BATTERY: Battery is 12-volt, 54 plate, 50 ampere-hour capacity.

TIRES: Rear: Dual all-traction 7.50 x 16 with tubes which have air-water valves: Normal inflation is 12 lbs. per square inch; minimum 10 lbs. per square inch for fine turf areas.

Front: Standard tire 6.70 x 15, 4-ply with tubes. Normal inflation 24 lbs. per square inch.

BRAKES: Bendix 14" x 2¼" double-servo hydraulic brakes on rear wheels. Uses a Wagner master cylinder with 1-inch diameter. 119 sq. inches of total brake shoe area. Parking brakes provided by mechanical actuation of the same shoes.

DIMENSIONS: Wheelbase—98 inches. Front wheel tread: 57½ inches. Rear wheel tread: 63 inches. Turning radius: 7 feet 3 inches. Curb clearance 10 inches. Overall length 133 inches without dump box, 150 inches with dump box. Height, 64 inches over top of steering wheel. Maximum width, 6 ft. 10 inches.

WEIGHT: 2810 lbs. total weight – includes coolant, fuel and lubricants.

WEIGHT WITH MOWERS: PARKMASTER tractor with seven Spartans, pneumatic tires, 5,831 lbs.; ROADMASTER tractor with seven Roughmasters, pneumatic tires and gauge wheels, 6,392 lbs.

SPEEDS: Transport speed in 4th gear at 3050 engine RPM—40 m.p.h. maximum safe speed on smooth highways.

WORKING GEARS:	1200 RPM	1800 RPM
4th	15.05 m.p.h.	22.30 m.p.h.
3rd	9.3 m.p.h.	13.9 m.p.h.
2nd	5.1 m.p.h.	7.5 m.p.h.
1st	2.4 m.p.h.	3.7 m.p.h.
Reverse	1.8 m.p.h.	3.0 m.p.h.

OPTIONAL EQUIPMENT: Power steering, power takeoff, hydraulic kit, governor, rear platform extension, horn kit, directional signals, headlights and tail lights, fuel pump kit, hour meter and tachometer kit.

Optional Equipment

POWER STEERING: Linkage type booster mounted on front axle controlled through bell crank by standard drag link and steering gear. Pump is belt-driven from crankshaft. Requires 3 to 5 lbs. manual effort. Uses 10W motor oil – 2 qt. capacity. 3 turns of the steering wheel from maximum left turn to maximum right turn.

POWER TAKEOFF: Gear case attached to right side of transmission takes power from 3rd speed gear on transmission countershaft. Engaged and disengaged by sliding gear—lever convenient to operator. Delivers power in counter-engine rotation at 42% of engine speed, or SAE standard agricultural speed of 540 RPM at 1290 engine RPM. Rated for 25 horsepower at 540 RPM. Power from gear box transmitted through drive shaft having two universal joints to output shaft at rear of tractor running on sealed, self-aligning ball bearings. This has standard SAE 1⅜ 6 spline with standard safety shield and drawbar extension to provide standard draw pin dimensions.

HYDRAULIC KIT: This is the basic hydraulic package purchased to operate any hydraulic equipment. Consists of a Webster pump with integral gear for driving off engine timing gear. Has a 12 quart reservoir and 25 micron filter with replaceable paper cartridge, plus necessary fittings, lines, and mounting parts. Pump turns at engine speed. Output 7.7 GPM @ 1250 RPM; 12.7 GPM @ 2000 RPM.

TACHOMETER KIT: Kit consists of tachometer, reading engine R.P.M. in hundreds of R.P.M., housing and bracket combination, necessary wire and instructions for mounting and connecting.

HOUR METER: Kit consists of hour meter, reading in tenths of an hour, vibration dampener bracket, clamp and necessary wire along with instructions for mounting and connecting.

GOVERNOR: Variable speed governor is a quadrant hand throttle type lever mounted on steering column. Normal governed no-load speed 2200 RPM. Effective speed control from 1200 RPM to 2200 RPM. Desirable when using the tractor on rough terrain or with speed limited "PTO" equipment.

REAR PLATFORM EXTENSION: A floor plate is available to cover the rear portion of the frame when neither dump box nor parkmaster is installed. Provides 3-inch high fence around back and sides.

HORN: The kit consists of a 12-volt utility horn with horn relay and waterproof horn button to fit center of steering wheel. Complete with necessary wires, mounting bracket and fasteners.

DIRECTIONAL SIGNALS: Kit consists of non-cancelling controller for mounting on steering column with 2 pilot lights, flasher and fuse. Two signal lamps with red lenses—two with amber lenses. Complete with necessary wire and mounting brackets, and installation instructions.

HEADLIGHTS AND TAIL LIGHTS: Two headlights are available—12 volt, 35-watt all-glass sealed-beam, 4½ inch lens. Adjustable mountings. Push-pull switch with integral 20-ampere fuse for mounting on instrument panel. One 12-volt tail light with single filament bulb, and necessary wiring and mounting brackets are also included.

FUEL PUMP KIT: A conventional camshaft-driven fuel pump to fit on the Continental engine in the Series 5 tractor, and the necessary fuel lines and fittings to connect it up. A fuel pump improves the reliability of fuel supply on extremely hilly terrain, where the standard gravity supply might fail to deliver when the fuel tank is less than ⅓ full.

The TORO Series V General Tractor Will Fit the Following Applications

HYDRAULIC PARKMASTER—5 or 7 gang—completely controlled with levers from the driver's seat. (See separate specifications.)

DUMP BOX: One cubic yard capacity made of 7-gauge steel, electrically welded, with over-center dumping. Half-yard extension is also available at slight additional cost. Empty weight: 450 lbs.

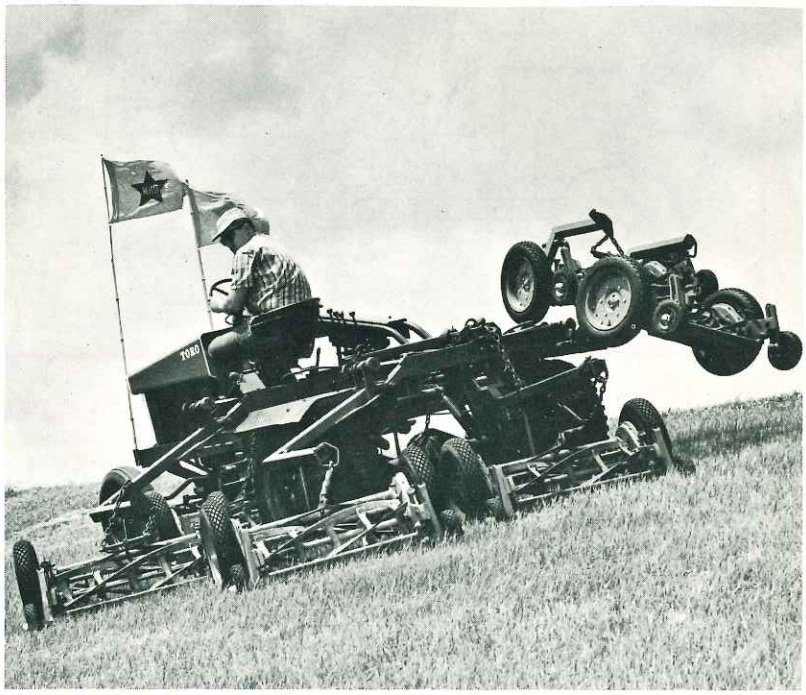
UNIVERSAL FRAME: 3, 5, 7, or 9 gang mower. (See separate specifications.)

TOWED IMPLEMENTS: Tractor provides standard drawbar by which a wide variety of implements can be pulled – such as trailers, sprayers, drags, rollers. Hitch hole size is 13/16" diameter.

Hydraulic Roadmaster

The Hydraulic Roadmaster is a combination powerful tractor, responsive hydraulic system and rugged heavy-duty gang mowers and frame. Its speed and flexibility of "control mowing" in rough turf areas is unlike any other unit on the market. It slims down to less than 8 feet, fans out to mow a 15-foot swath, in seconds. You can mow on the sides of roadways using the wing units only – even mow boulevards or other strips with one or two units. It's actually many mowers in one! And all seven units are automatically, safely raised for transport in less than 60 seconds.

73 horsepower tractor provides peak lugging power. Effective weight distribution. Traverses 2:1 slope. Hydraulic brakes. 7′ 3″ turning radius. 40 mph transport speed.



FOR MORE DETAILED INFORMATION WRITE FOR FORM #490-0646

Hydraulic Parkmaster

The 7-Unit Hydraulic Parkmaster has speed and flexibility unlike any other combination on the market. It slims down to pass through narrow areas, fans out to mow up to a 15-foot swath in seconds. You can mow on both sides of roadways using the wing units only – even mow boulevards or other strips with one or two units. It's actually many mowers in one! No longer does the operator have to manually lift each gang for transport. All seven units are automatically, safely raised for transport in less than a minute. No longer does the operator waste *more* time putting the units into action. Think how this Toro 7-Unit Hydraulic Parkmaster can cut your grounds-maintenance cost – actual operation has proved this revolutionary unit can slash mowing costs as much as 50%!

FOR MORE DETAILED INFORMATION WRITE FOR FORM #490-0646

Specifications and Trim Subject to Change Without Notice

TORO®

For complete turf maintenance choose TORO

TORO 51 YEARS

TORO MANUFACTURING CORP.
MINNEAPOLIS 20, MINNESOTA

Form No. 490-1035